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Filing Date		2006-04-28	
First Named Inventor Miyaz		zaki et al.	
Art Unit		1643	
Examiner Name	Lynn	Anne Bristol	
Attorney Docket Number		14875-0154US1	

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	2	WO1996001653	wo	A1	1996-01-25	THORPE et al.	
	3	EP1510943	EP		2005-03-02	SAITO et al.	
	4	EP1870459	EP		2007-12-26	IGAWA et al.	
	5	JP09506001	JP		1997-06-17	LINDHOFER et al.	
	6	WO9533844	wo		1995-12-14	LINDHOFER et al.	
	7	WO9803546	wo		1998-01-29	BOONE et al.	
	8	WO2006106905	wo		2006-10-12	IGAWA et al.	
	9	WO2005035756	wo	A1	2005-04-21	HATTORI et al.	
	10	EP1693448	EP		2006-08-23	HATTORI et al.	
	11	CA2603264	CA		2006-10-19	HATTORI et al.	

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	2	SCHMIDT et al., Human Physiology, Moscow, 2.431-436 (1996), and English translation: SCHMIDT et al., 'Hemostatis and Coagulation,' Human Physiology, R.F. Schmidt, G. Thews (Eds.), Second, Completely Revised Edition, 418-423 [translated by Marguertie A. Biederman-Thorson], Springer-Verlag, 1989	×
	3	SCHMIDT et al., Human Physiology, Moscow, 3.764 (1996), and English banslation: SCHMIDT et al., "Enzymes of the pancreatic julce," Human Physiology, R.F. Schmidt, G. Thevis (Eds.), Second, Completely Revised Edition, 716 (translated by Marguerite A. Biedeman-Thorson), Springer-Verlag, 1989	×
	4	FISH & RICHARDSON P.C., Amendment and Response to Restriction Requirement dated November 18, 2009 in U.S. App. Ser. No. 10575,905, filed April 16, 2010, 12 pages	
	5	FISH & RICHARDSON P.C., Amendment in Reply to Addon dated June 23, 2010 in U.S. App. Ser. No. 10/575,505, filed December 22, 2010, 10 pages	
	6	FISH & RICHARDSON P.C., Amendment in Reply to Addion dated June 23, 2010 in U.S. App. Ser. No. 10/575,193, filed December 22, 2010, 13 pages	
	7	ADAMS et al., "Humanization of a recombinant monoclonal antibody to produce a therapeutic HER dimerization inhibitor, pertuzumab," Cancer Immunol. Immunolther., 55:717-727 (2006)	
	8	BINZ et al., "Engineering novel binding proleins from nonimmunoglobulin domains," Nat. Biotechnol., 23 1257-68 (2005)	
	9	BRANDEN and TOOZE, "Recognition of Foreign Molecules by the Immune System," Introduction to Protein Structure, 2d Ed. Cardand Publishers pp. 390-373 (1990).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

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	Attornou Docket Number		14875.01541191	

10	COMPER and GLASGOW, "Charge selectivity in kidney ultrafiltration," Kidney Int., 47.1242-51 (1995)	
11	COUTO et al., "Anti-BA46 Monocional Antibody Mc3: Humanization Using a Novel Positional Consensus and in Vivo and in Vitro Characterization," Cancer Research, 55:1717-1722 (1995)	
12	DEEN et al., "Structural determinants of glomerular permeability," Am. J. Physiol. Renal. Physiol., 281;F579;F596 (2001)	
13	DEL RIO et al., "An Engineered Penicillin Acylase with Attered Surface Charge Is More Stable in Alkaline pH," Ann. NY Acad. Sci., 799:61-64 (1996)	
14	GHETIE and WARD, "FoRn: the MHC class I-related receptor that is more than an IgG transporter," Immunol. Today, 18:592-598 (1997)	
15	GHETIE et al., "Increasing the serum persistence of an IgG fragment by random mutagenesis," Nature Biotechnology, 15:637-940 (1997)	
16	GHETIE et al., "Multiple roles for the major histocompatibility complex class I- related receptor FoRn," Annu. Rev. Immunol., 18:739-766 (2000)	
17	GOBBURU et al., "Pharmacokinetics/dynamics of 5c8, a monocional antibody to CD154 (CD40 ligand) suppression of an immune response in monkeys," J. Pharmacok. Exp. Ther., 286:325-930 (1998)	
18	COODE et al., "The glomerular basement membrane charge-selectivity barrier: an oversimplified concept?," Nephrol. Dial. Transplant., 11:1714-16 (1996)	
19	GRAVES et al., "Molecular modeling and preclinical evaluation of the humanized NR-LU-13 antibody," Clin. Cancer Res., 5.899-908 (1999)	
20	GUPTA et al., "Affinity chromatiography and co-chromatography of bispecific monoclonal antibody immunoconjugates," J. Biochem. Biophys. Methods, 51:203-216 (2002)	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

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First Named Inventor Miyaz		raki et al.
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21	HE et al., "Humanization and pharmacokinetes of a monoclonal antibody with specificity for both E- and P-selectin," J. Immunol., 160.1029-35 (1998)	
22	HINTON et al., "An engineered human IgG1 antibody with longer serum half-life," J. Immunol., 176.346-356 (2006)	
23	KASHMIRI et al., "Generation, characterization, and in vivo studies of humanized anticarcinoma antibody CC49," Hybridoma, 14-461-473 (1995)	
24	KHAWLI et al., "Improved fumor localization and radiomaging with chemically modified monoclonal antibodies," Cancer Biother. Radiopharm., 11:203-215 (1996)	
25	KIM et al., "Antibody Engineering for the Development of Therapeutic Antibodies," Mol. Cells, 20:17-29 (2005)	
26	KIM et al., "Chemical modification to reduce renal uptake of distuffide-bonded variable region fragment of anti-tac monocional antibody labeled with 99mTc," Bioconjugate Chem., 10.447-453 (1999)	
27	KIM et al., "Lowering of pit by acytetion improves the renat uptake of 99mTo-tabeled anti-Tao dsFv: effect of different acyteting reagents," Nucl. Med. Biol., 29:795-801 (2002)	
28	KOBAYASHI et al., "The pharmacoknetic characteristics of glycolated humanized anti-Tac Fabs are determined by their isoelecting points," Cancer Res., 59:422-430 (1999)	
29	KREUTZ et al., "Efficient bispecific monoclonal antibody purification using gradient thiophilic affinity chromatography," J. Chromatogr. B, 714:161-170 (1998)	
30	LINDHOFER et al., "Preferential Species-Restricted Heavy/Light Chain Parring in Rat/Mouse Quadromas," J. Immunol., 155.219-225 (1995)	
31	LOBO et al., "Antibody pharmacokinetics and pharmacodynamics," J. Pharm. Sci., 93:2645-68 (2004)	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Art Unit
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Examiner Name Lynn		Anne Bristol
Attorney Docket Number		14875-0154US1

32	hydrophobic interaction chromatography. J. Immunol. Methods, 208 65-73 (1997)	
33	MARTIN et al., "Crystal structure at 2.8 A of an FcRinheterodimenc Fc complex: mechanism of pH-dependent binding," Mol. Cell, 7:867-877 (2001)	
34	MARVIN et al., "Recombinant approaches to IgG-like bispecific antibodies," Acta. Pharmacol. Sin., 26:649-658 (2005)	
35	ONDA et al., "Lowering the isoelectric Point of the Fv Portion of Recombinant Immunotoxins Leads to Decreased Nonspecific Animal Toxicity without Affecting Antitumor Activity," Cancer Res., 61:5070-77 (2001)	
36	PAVLINKOVA et al., "Charge-modified single chain antibody constructs of monochrisil antibody CC49: Generation, characterization, pharmacokinetics, and biodistribution analysis," Nucl. Med. Biol., 2627-34 (1999)	
37	PAVLOU et al., "The therapeutic antibodies market to 2008," Eur. J. Pharm. Biopharm., 59:389-396 (2005)	
38	PODUSLO et al., "Polyamine modification increases the permeability of proteins at the blood – nerve and blood-brain barriers," J. Neurochem., 66:1593-1609 (1996)	
39	RAUPAL et al., A general method for greatly improving the affinity of antibodies by using combinatorial libraries," Proc. Natl. Acad. Sol. USA, 102:8466-71 (2005)	
40	REICHERT et al., "Monoclonal antibody successes in the clinic," Nat. Biotechnol., 23:1073-78 (2005)	
41	SCHAEFFER et al., "The Rat Glomerular Filtration Barrier Does Not Show Negative Charge Selectivity," Microarculation, 9 329-342 (2002)	
42	SHAUL, "Exploring the charge space of protein-protein association: a proteomic study," Proteins, 60:341-352 (2005)	

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pplication Number		10560098
iling Date		2006-04-28
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rt Unit		1643
xaminer Name Lynn		Anne Bristol
ttorney Docket Numb	er	14875-0154US1

	43	SHELDS at al. "High resolution mapping of the binding site on human light for Fc gamma RI, Fc gamma RII, J. Biol. Chem., 276 591-5904, Chin Chem., 276 591-5904, Chin Chem.				
	44	TARDITI et al., "Selective high performance liquid chromatographic purification of bispecific monocional antibodies," J. Chromatogr., 599:13-20 (1992)				
	45	TEN KATE et al., "Effect of soelectric point on biodistribution and inflammation: imaging with indium-111-labelled IgG," Eur. J. Nucl. Med., 17:305-309 (1990)				
	46	TSURUSHITA et al., "Design of humanized antibodies: From anti-Tac to Zenapax." Methods, 36:69-83 (2005)				
	47	YAMASAKI et al., "Pharmacokinetic analysis of in vivo disposition of suocinylated proteins targeted to liver nonparenchymal cells via scaverager recogions: importance of molecular size and negative charge density for in vivo recognition by receptors," J. Pharmacok. Exp. Ther., 301:457-477 (2002)				
	48	YANG et al., "Tailoring structure-function and pharmacokinetic properties of single-chain Fv proteins by site-specific PEGylation," Protein Eng., 16:761-770 (2003)				
	49	ZUCKIER et al., "Chimeric human-mouse tgC antibodies with shuffled constant region exons demonstrate that multiple domains contribute to in who half-life," Canner Res., 56:3905-08 (1998)				
	50	JAPANESE EXAMINER MASASHI HONDA, International Preliminary Report on Patentiability for App. Ser. No. PCT/ JP2007/057058, dated October 21, 2008, 11 pages				
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